## IN THE CLAIMS

This is a complete and current listing of the claims, marked with status identifiers in parentheses. The following listing of claims will replace all prior versions and listings of claims in the application.

1. <u>(Currently Amended)</u> A high-voltage supply device for <u>an</u> electric filters, <u>having comprising:</u>

high-voltage devices—(1), which are arranged close to the electric filter, and by means of which adapted to supply the electric filter can be supplied—with an electrical high voltage;

control units (6), which are each respectively associated with a high-voltage device (1), and by means of which each adapted to control and regulate the associated high-voltage devices (1) associated with them can be controlled and regulated depending on requirements and taking into consideration the at least one of measured values and, if necessary, diagnosis data detected rmined by the measuring heads—(2, 3), wherein <del>characterized in that</del> the measuring heads, (2, 3)—on the high-voltage device side, each include have—an optical waveguide interface—(4), in that wherein the measuring heads, -(2, 3) on the high-voltage device side, are connected via their optical waveguide interfaces (4)—in a first local optical waveguide network—(5), in that wherein the control units <del>(6)</del>—are connected to one another by <del>means of</del> a second local optical waveguide network—(7), and in that wherein the local optical waveguide network (5), on the high-voltage device side, and the local optical waveguide network—(7), on

the control unit side, are coupled to one another by means of an optical waveguide connection (8).

- 2. <u>(Currently Amended)</u> The high-voltage supply device for electric filters as claimed in claim 1, in which wherein at least one of the local optical waveguide network <del>(5)</del> on the high-voltage device side, and/or the local optical waveguide network <del>(7)</del> on the control unit side, has/haveincludes a ring topology.
- 3. <u>(Currently Amended)</u> The high-voltage supply device for electric filters as claimed in claim 1, in which wherein at <u>least one of the local optical</u> waveguide network (5) on the high-voltage device side, and/or the local optical waveguide network (7) on the control unit side, includes has/have a star topology.
- 4. <u>(Currently Amended)</u> The high-voltage supply device for electric filters as claimed in <del>one of</del> claims 1 to 3, in which wherein the at least one of a ring and or star topologyies, forming the local optical waveguide networks—(5, 7) are, is of redundant design.
- 5. <u>(Currently Amended)</u> The high-voltage supply device for electric filters as claimed in one of claims 1 to 4, in which claim 1, wherein the optical waveguides of the local optical waveguide networks (5, 7) are plastic optical waveguides—which can be prefabricated.
- 6. <u>(Currently Amended)</u> The high-voltage supply device for electric filters as claimed in <del>one of claims 1 to 5, in which</del>claim 1, wherein the optical waveguide connection <del>(8)</del> between the two local optical waveguide networks <del>(5, 7)</del> is of redundant design.

- 7. (Currently Amended) The high-voltage supply device for electric filters as claimed in one of claims 1 to 6, in which claim 1, wherein the optical waveguides of the optical waveguide connection are in the form of at least one of glass or and PCF optical waveguides.
- 8. <u>(Currently Amended)</u> The high-voltage supply device for electric filters as claimed in one of claims 1 to 7, in which claim 1, wherein the optical waveguide connection—(8) is in the form of a sheathed optical waveguide cable, for example in the form of a CUPOFLEX+ cable.
- 9. (Currently Amended) The high-voltage supply device for electric filters as claimed in one of claims 1 to 8, in which claim 1, wherein standard protocols, for example CAN, PROFIBUS, TCPIP protocols or the like, may be used as the transmission protocol between the measuring heads (2, 3) and the control units—(6).
- 10. (New) The high-voltage supply device for electric filters as claimed in claim 2, wherein the ring topology, forming the local optical waveguide networks, is of redundant design.
- 11. (New) The high-voltage supply device for electric filters as claimed in claim 3, wherein the star topology, forming the local optical waveguide networks, is of redundant design.
- 12. (New) The high-voltage supply device for electric filters as claimed in claim 1, wherein the optical waveguides of the local optical waveguide networks are prefabricated plastic optical waveguides.
- 13. (New) The high-voltage supply device for electric filters as claimed in claim 2, wherein the optical waveguide

connection between the two local optical waveguide networks is of redundant design.

- 14. (New) The high-voltage supply device for electric filters as claimed in claim 3, wherein the optical waveguide connection between the two local optical waveguide networks is of redundant design.
- 15. (New) The high-voltage supply device for electric filters as claimed in claim 2, wherein the optical waveguides of the optical waveguide connection are in the form of at least one of glass and PCF optical waveguides.
- 16. (New) The high-voltage supply device for electric filters as claimed in claim 3, wherein the optical waveguides of the optical waveguide connection are in the form of at least one of glass and PCF optical waveguides.
- 17. (New) The high-voltage supply device for electric filters as claimed in claim 1, wherein the optical waveguide connection is in the form of a CUPOFLEX+ cable.
- 18. (New) The high-voltage supply device for electric filters as claimed in claim 9, wherein standard protocols include at least one of CAN, PROFIBUS, and TCPIP protocols.